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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,480	10/05/2005	Steven P Buysse	2134CONCIPPCTUS	2853
50855 Tyco Healthcar	7590 08/29/200 e Group LP	EXAMINER		
60 MIDDLETC	OWN AVENUE		YABUT, DIANE D	
NORTH HAVEN, CT 06473			ART UNIT	PAPER NUMBER
			3734	
			MAIL DATE	DELIVERY MODE
			08/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/516,480	BUYSSE ET AL.			
Office Action Summary	Examiner	Art Unit			
	DIANE YABUT	3734			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTH OF THE M	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 15. This action is FINAL . 2b) ☐ The 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according to a positive and a positive a	awn from consideration. or election requirement.	Examiner.			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/02/2008.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

Application/Control Number: 10/516,480 Page 2

Art Unit: 3734

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/15/2008 has been entered.

Information Disclosure Statement

 The information disclosure statement (IDS) submitted on 06/02/2008 is acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97.
 Accordingly, the information disclosure statement is being considered by the examiner. Application/Control Number: 10/516,480 Page 3

Art Unit: 3734

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In lines 16-17 in claim 1 and lines 18-19 in claim 8, the each of the plurality of stops are recited as "being located <u>distally</u> relative to the pivot," which contradicts the recitation in lines 19-20 of claim 1 and lines 21-22 in claim 8 of "at least one of the stops being located <u>proximal</u> the pivot."

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Stone** (U.S. Pat. No. **5,573,534**) in view of **Appleby et al.** (U.S. Patent No. **6,391,035**) and **Klieman et al.** (U.S. Patent No. **5,827,323**).

<u>Claims 1-4 and 7-9</u>: Stone discloses a handle having an elongated tube **18** affixed thereto, the tube including first and second jaw members **82**, **84** attached to a distal end thereof, the jaw members being movable about a pivot from a first position for

approximating tissue to at least one subsequent position for grasping tissue therebetween, each of the jaw members including an electrically conductive sealing surface, the handle including a fixed handle 14 and a movable handle 16, the movable handle being movable relative to the fixed handle to effect movement of the jaw members from the first position to the at least one subsequent position for grasping tissue (Figures 1-2), the opposable sealing surfaces including a non-stick material coating which is deposited on the opposable sealing surfaces for reducing tissue adhesion during sealing process (col. 7, lines 25-34), means for connecting the jaw members to a source of electrosurgical energy including a pushrod 22 for connecting a first jaw member to a source of electrosurgical energy (col. 3, lines 15-21, col. 5, lines 60-67 to col. 6, lines 1-4), such that the opposable seal surfaces are capable of conducting electrosurgical energy through tissue held therebetween.

Stone discloses the claimed device except for a plurality of stops, disposed on or disposed adjacent to at least one of the sealing surfaces, the stops being located distally or proximal relative to the pivot, which maintains a minimum separation distance of at least about 0.03 millimeters, or in the range of about 0.03 millimeters to about 0.16 millimeters, between opposable sealing surfaces, and a means for maintaining a closure force in the range of about 3 kg/cm² to about 16 kg/cm² between opposable sealing surfaces, and also the maintaining means including a ratchet disposed within the fixed handle and at least one complimentary interlocking mechanical interface disposed on the movable handle, the ratchet and the complimentary interlocking mechanical interface providing at least one interlocking position for maintaining a

closure force within the range of about 7 kg/cm² to about 13 kg/cm² or about 4 kg/cm² to 6.5 kg/cm² between opposable sealing surfaces.

Appleby et al. et al. teach a stops **84** and **86**, discretely disposed on or disposed adjacent to at least one of the sealing surfaces of two jaw members **90** and **92**, the stop being located distally relative to the pivot **54** about which each jaw members is movable, which maintains a minimum separation distance (Figure 2; col. 4, lines 44-46). It would have been obvious to one of ordinary skill in the art at the time of invention to provide a stop to maintain a minimum separation device, as taught by Appleby et al., to Stone in order to prevent excessive deflection of the jaws when closed, which may injure tissue.

In addition, although Appleby et al. do not disclose one of the stops being located proximate the pivot, the applicant discloses in the last paragraph of page 14 that the stop may be positioned proximate the pivot or adjacent the seal surfaces, or distal to the pivot. Since applicant has not disclosed that having the stops proximate the pivot solves any stated problem or is for any particular purpose, it appears that the instrument would perform equally well with at least one of the stops being proximate the pivot.

Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the at least one of the stops located proximate the pivot, since it has been held that rearranging parts of an invention involves only routine skill in the art.

Although Appleby et al. do not expressly close the minimum separation distance being at least about 0.03 millimeters, or in the range of about 0.03 millimeters to about 0.16 millimeters, between opposable sealing surfaces, it would have been obvious to

Application/Control Number: 10/516,480

Art Unit: 3734

one of ordinary skill in the art to provide this range of values, since it has been held that discovering optimum or workable ranges involve only routine skill in the art.

Page 6

Klieman et al. discloses a means for maintaining a closure force between opposable sealing surfaces 40 and 44, the maintaining means including a ratchet 16 disposed within the fixed handle and at least one complimentary interlocking mechanical interface 57 disposed on the movable handle 4, the ratchet and the complimentary interlocking mechanical interface providing at least one interlocking position for maintaining a closure force (Figures 5A-5B). It would have been obvious to one of ordinary skill in the art at the time of invention to provide a means for maintaining a closure force between opposable sealing surfaces, as taught by Klieman et al., to Stone in order for the surgeon to operably control and maintain the force applied by the jaws to effectively grasp tissue while avoiding injury. Although Klieman et al. does not expressly disclose the closure force being within the range of about maintaining a closure force in the range of about 3 kg/cm² to about 16 kg/cm² 7 kg/cm² to about 13 kg/cm² or about 4 kg/cm² to 6.5 kg/cm² between opposable sealing surfaces, it would have been obvious to one of ordinary skill in the art to provide this range of values, since it has been held that discovering optimum or workable ranges involve only routine skill in the art.

<u>Claims 10-14</u>: Stone discloses the opposable sealing surfaces being manufactured from a non-stick material or a non-stick coating being selected from a group of materials consisting of nitrides and nickel/chrome alloys, including at least one of: TiN; ZrN;

TiAIN; CrN; nickel/chrome alloys with a Ni/Cr ratio of approximately 5:1; Inconel 600; Ni200; and Ni201 (col. 9, lines 7-44).

<u>Claims 15-17</u>: Stone discloses the handles having an insulative material **30** serving as a coating or sheath disposed thereon (Figure 1, col. 6, lines 5-14).

Response to Arguments

3. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIANE YABUT whose telephone number is (571)272-6831. The examiner can normally be reached on M-F: 9AM-4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on (571) 272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/516,480 Page 8

Art Unit: 3734

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Diane Yabut/ Examiner, Art Unit 3734

/Todd E Manahan/

Supervisory Patent Examiner, Art Unit 3731